FAIRCHILD SEMICONDUCTOR®

October 2011

FOD060L, FOD260L
3.3V/5V High Speed-10 MBit/s Logic Gate Optocouplers

Features

- FOD060L in SO8 and FOD260L in 8-pin DIP
- Very high speed – 10 MBit/s
- Superior CMR — 50 kV/µs at 1,000V peak
- Fan-out of 8 over -40°C to +85°C
- Logic gate output
- Strobable output
- Wired OR-open collector
- Safety and regulatory approvals
  - UL1577
  - DIN EN/IEC 60747-5-2

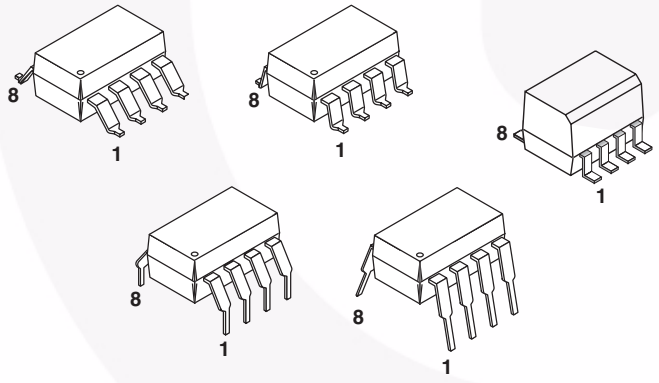
Applications

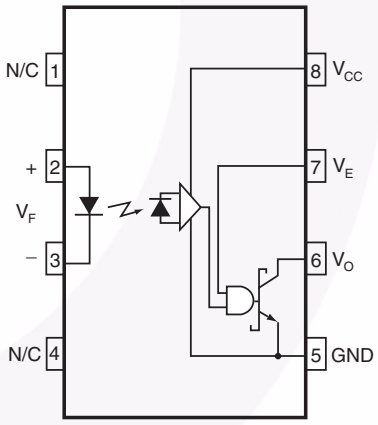
- Ground loop elimination
- LSTTL to TTL, LSTTL or 5-volt CMOS
- Line receiver, data transmission
- Data multiplexing
- Switching power supplies
- Pulse transformer replacement
- Computer-peripheral interface

Description

These optocouplers consist of an AlGaAS LED, optically coupled to a very high speed integrated photo-detector logic gate. Devices include a strobable output. This output features an open collector, thereby permitting wired OR outputs. The coupled parameters are guaranteed over the temperature range of -40°C to +85°C. A maximum input signal of 5 mA will provide a minimum output sink current of 13 mA (fan out of 8). An internal noise shield provides superior common mode rejection of typically 50 kV/µs at 1,000V common mode.

Package





Truth Table (Positive Logic)

Input	Enable	Output
On	H	L
Off	H	H
On	L	H
Off	L	H
On*	NC*	L*
Off*	NC*	H*

*Devices with pin 7 not connected.
A 0.1 µF bypass capacitor must be connected between pins 5 and 8. (See Note 1)

Absolute Maximum Ratings (No derating required up to 85°C)

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Value	Units
T_{STG}	Storage Temperature	-40 to +125	°C
T_{OPR}	Operating Temperature	-40 to +85	°C
EMITTER			
I_F	DC/Average Forward Input Current	50	mA
V_E	Enable Input Voltage, not to exceed V_{CC} by more than 500 mV	V_{CC} + 0.5V	V
V_R	Reverse Input Voltage	5.0	V
P_I	Power Dissipation	45	mW
DETECTOR			
V_{CC} (1 minute max)	Supply Voltage	7.0	V
I_O	Output Current	50	mA
V_O	Output Voltage	7.0	V
P_O	Collector Output Power Dissipation	85	mW

Recommended Operating Conditions

Symbol	Parameter	Min.	Max.	Units
I_{FL}	Input Current, Low Level	0	250	µA
I_{FH}	Input Current, High Level	*6.3	15	mA
V_{CC}	Supply Voltage, Output	3.0	5.5	V
V_{EL}	Enable Voltage, Low Level	0	0.8	V
V_{EH}	Enable Voltage, High Level	2.0	V_{CC}	V
T_A	Operating Temperature	-40	+85	°C
N	Fan Out (TTL load)		8	
R_L	Output Pull-up Resistor	330	4K	Ω

*6.3 mA is a guard banded value which allows for at least 20% CTR degradation. Initial input current threshold value is 5.0 mA or less.

Electrical Characteristics (T_A = -40°C to +85°C unless otherwise specified. Typical value is measured at T_A = 25°C and V_{CC} = 3.3V)

Individual Component Characteristics

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
EMITTER						
V_F	Input Forward Voltage	I_F = 10 mA		1.4	1.8	V
		T_A = 25°C			1.75	
B_{VR}	Input Reverse Breakdown Voltage	I_R = 10 µA	5.0			V
C_{IN}	Input Capacitance	V_F = 0, f = 1 MHz		6.0		pF
ΔVF/ΔTA	Input Diode Temperature Coefficient	I_F = 10 mA		-1.9		mV/°C
DETECTOR						
I_{CCH}	High Level Supply Current	V_E = 0.5 V, I_F = 0 mA, V_{CC} = 3.3 V		3.5	7	mA
I_{CCL}	Low Level Supply Current	V_E = 0.5 V, I_F = 0 mA, V_{CC} = 3.3 V		3.2	10	mA
I_{EL}	Low Level Enable Current	V_{CC} = 3.3 V, V_E = 0.5 V			-1.6	mA
I_{EH}	High Level Enable Current	V_{CC} = 3.3 V, V_E = 2.0 V			-1.6	mA
V_{EH}	High Level Enable Voltage	V_{CC} = 3.3 V, I_F = 10 mA	2.0	1.27		V
V_{EL}	Low Level Enable Voltage	V_{CC} = 3.3 V, I_F = 10 mA (Note 2)		1.18	0.8	V

Switching Characteristics (T_A = -40°C to +85°C, V_{CC} = 3.3 V, I_F = 7.5 mA unless otherwise specified. Typical value is measured at T_A = 25°C and V_{CC} = 3.3V)

Symbol	AC Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
T_{PLH}	Propagation Delay Time to Output High Level	R_L = 350Ω, C_L = 15 pF (Fig. 9) (Note 3)		65	90	ns
T_{PHL}	Propagation Delay Time to Output Low Level	R_L = 350Ω, C_L = 15 pF (Fig. 9) (Note 4)		43	75	ns
$\lvert T_{PHL} - T_{PLH} \rvert$	Pulse Width Distortion	R_L = 350Ω, C_L = 15 pF (Fig. 9)		23	25	ns
t_{PSK}	Propagation Delay Skew	R_L = 350Ω, C_L = 15 pF (Note 5)		31	40	ns
t_r	Output Rise Time (10-90%)	R_L = 350Ω, C_L = 15 pF (Fig. 9)(Note 6)		22		ns
t_f	Output Fall Time (90-10%)	R_L = 350Ω, C_L = 15 pF (Fig. 12) (Note 7)		3		ns
t_{ELH}	Enable Propagation Delay Time to Output High Level	V_{EH} = 3 V, R_L = 350Ω, C_L = 15 pF (Fig. 10) (Note 8)		47		ns
t_{EHL}	Enable Propagation Delay Time to Output Low Level	V_{EH} = 3 V, R_L = 350Ω, C_L = 15 pF (Fig. 10) (Note 9)		27		ns
CM_H	Common Mode Transient Immunity (at Output High Level)	R_L = 350Ω, T_A =25°C, I_F = 0 mA, V_{OH} (Min.) = 2.0V, $\lvert V_{CM} \rvert$ = 1,000 V (Fig. 11) (Note 10)	25,000	50,000		V/µs
CM_L	Common Mode Transient Immunity (at Output Low Level)	R_L = 350Ω, T_A =25°C, I_F = 7.5 mA, V_{OL} (Max.) = 0.8 V, $\lvert V_{CM} \rvert$ = 1,000 V (Fig. 11) (Note 11)	25,000	50,000		V/µs

Transfer Characteristics (T_A = -40°C to +85°C Unless otherwise specified. Typical value is measured at T_A = 25°C and V_{CC} = 3.3V)

Symbol	DC Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
I_{OH}	High Level Output Current	I_F = 250 µA, V_{CC} = 3.3 V, V_O = 3.3 V, V_E = 2.0 V (Note 2)		0.01	50	µA
V_{OL}	Low Level Output Voltage	V_{CC} = 3.3 V, I_F = 5 mA, I_{OL} = 13 mA, V_E = 2.0 V (Note 2)		0.3	0.6	V
I_{FT}	Input Threshold Current	V_{CC} = 3.3 V, V_O = 0.6 V, I_{OL} = 13 mA, V_E = 2.0 V (Note 2)		1	5	mA

Isolation Characteristics (T_A = -40°C to +85°C Unless otherwise specified. Typical value is measured at T_A = 25°C and V_{CC} = 3.3V)

Symbol	Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
I_{I-O}	Input-Output Insulation Leakage Current	Relative humidity = 45%, T_A = 25°C, t = 5 s, V_{I-O} = 3000 VDC (Note 12)			1.0	µA
V_{ISO}	Withstand Insulation Test Voltage	$I_{IO} \leq 2$ µA, $R_H < 50\%$, T_A = 25°C, t = 1 min.(Note 12)				V_{RMS}
	FOD060L		3750			
	FOD260L		5000			
R_{I-O}	Resistance (Input to Output)	V_{I-O} = 500 V (Note 12)		10^{12}		Ω
C_{I-O}	Capacitance (Input to Output)	f = 1 MHz (Note 12)		0.6		pF

Notes

1. The V_{CC} supply to each optoisolator must be bypassed by a 0.1µF capacitor or larger. This can be either a ceramic or solid tantalum capacitor with good high frequency characteristic and should be connected as close as possible to the package V_{CC} and GND pins of each device.
2. Enable Input – No pull up resistor required as the device has an internal pull up resistor.
3. t_{PLH} – Propagation delay is measured from the 3.75 mA level on the HIGH to LOW transition of the input current pulse to the 1.5V level on the LOW to HIGH transition of the output voltage pulse.
4. t_{PHL} – Propagation delay is measured from the 3.75 mA level on the LOW to HIGH transition of the input current pulse to the 1.5V level on the HIGH to LOW transition of the output voltage pulse.
5. t_{PSK} is the worst case difference between t_{PHL} and t_{PLH} for any devices at the stated test conditions.
6. t_r – Rise time is measured from the 90% to the 10% levels on the LOW to HIGH transition of the output pulse.
7. t_f – Fall time is measured from the 10% to the 90% levels on the HIGH to LOW transition of the output pulse.
8. t_{ELH} – Enable input propagation delay is measured from the 1.5V level on the HIGH to LOW transition of the input voltage pulse to the 1.5V level on the LOW to HIGH transition of the output voltage pulse.
9. t_{EHL} – Enable input propagation delay is measured from the 1.5V level on the LOW to HIGH transition of the input voltage pulse to the 1.5V level on the HIGH to LOW transition of the output voltage pulse.
10. CM_H – The maximum tolerable rate of rise of the common mode voltage to ensure the output will remain in the high state (i.e., V_{OUT} > 2.0 V). Measured in volts per microsecond (V/µs).
11. CM_L – The maximum tolerable rate of fall of the common mode voltage to ensure the output will remain in the low output state (i.e., V_{OUT} < 0.8 V). Measured in volts per microsecond (V/µs).
12. Device considered a two-terminal device: Pins 1, 2, 3 and 4 shorted together, and Pins 5, 6, 7 and 8 shorted together.

Typical Performance Curves

Fig. 1 Input Forward Current vs. Forward Voltage

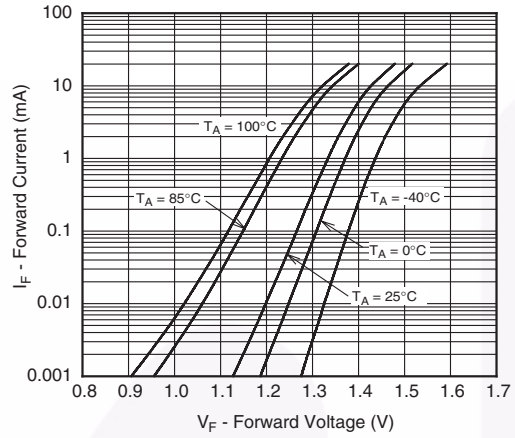


Fig. 2 Input Threshold Current vs. Ambient Temperature

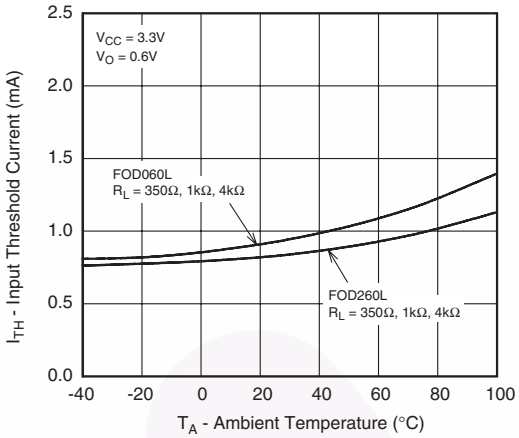


Fig. 3 Low Level Output Voltage vs. Ambient Temperature

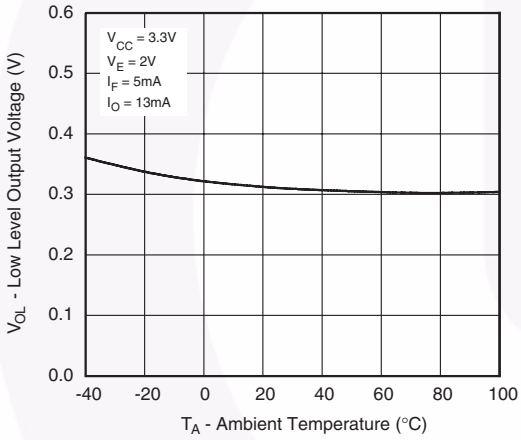


Fig. 4 High Level Output Current vs. Ambient Temperature

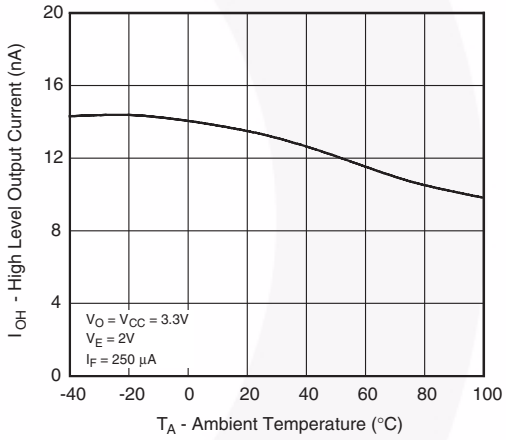


Fig. 5 Low Level Output Current vs. Ambient Temperature

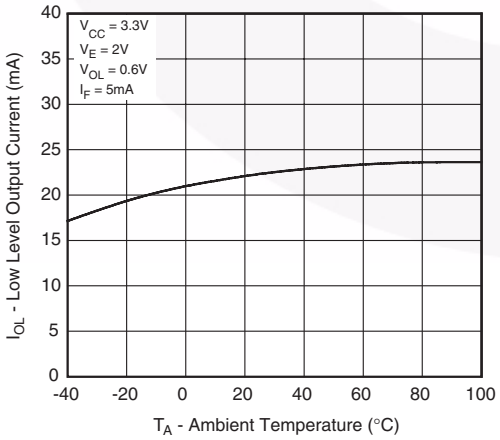
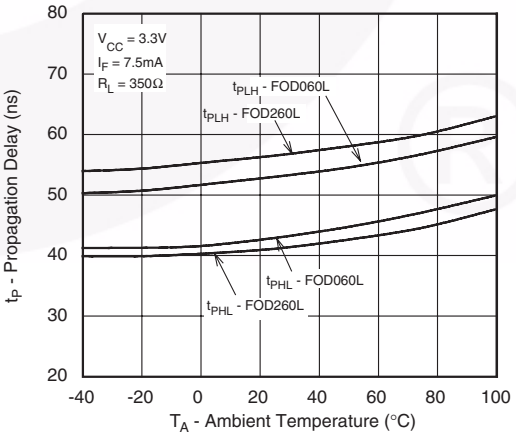


Fig. 6 Propagation Delay vs. Ambient Temperature



Typical Performance Curves

Fig. 7 Rise and Fall Times vs. Ambient Temperature

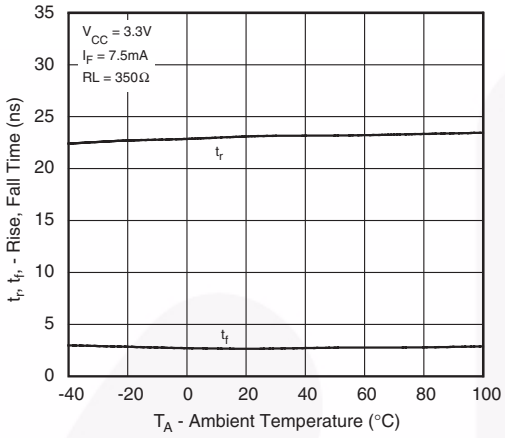
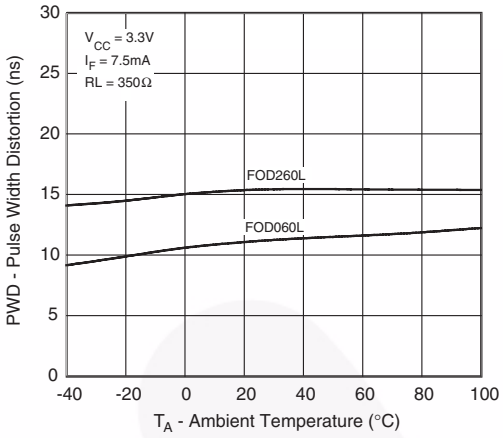


Fig. 8 Pulse Width Distortion vs. Ambient Temperature



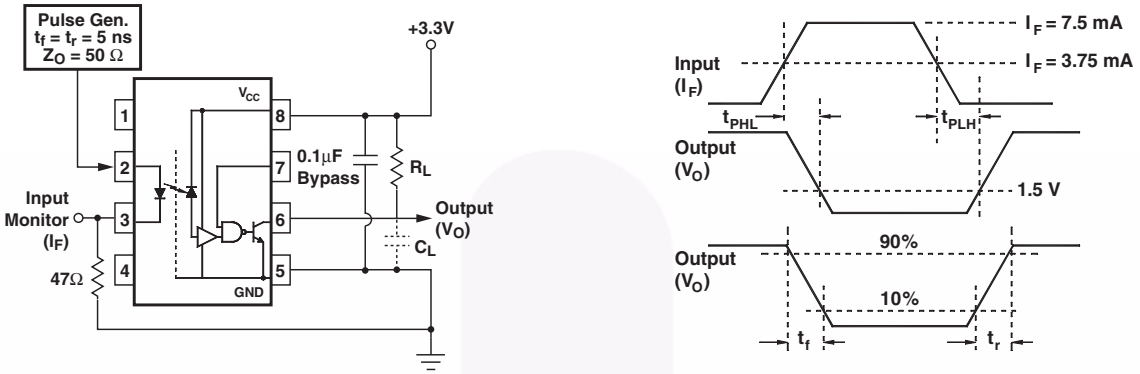


Fig. 9 Test Circuit and Waveforms for t_{PLH}, t_{PHL}, t_r and t_f.

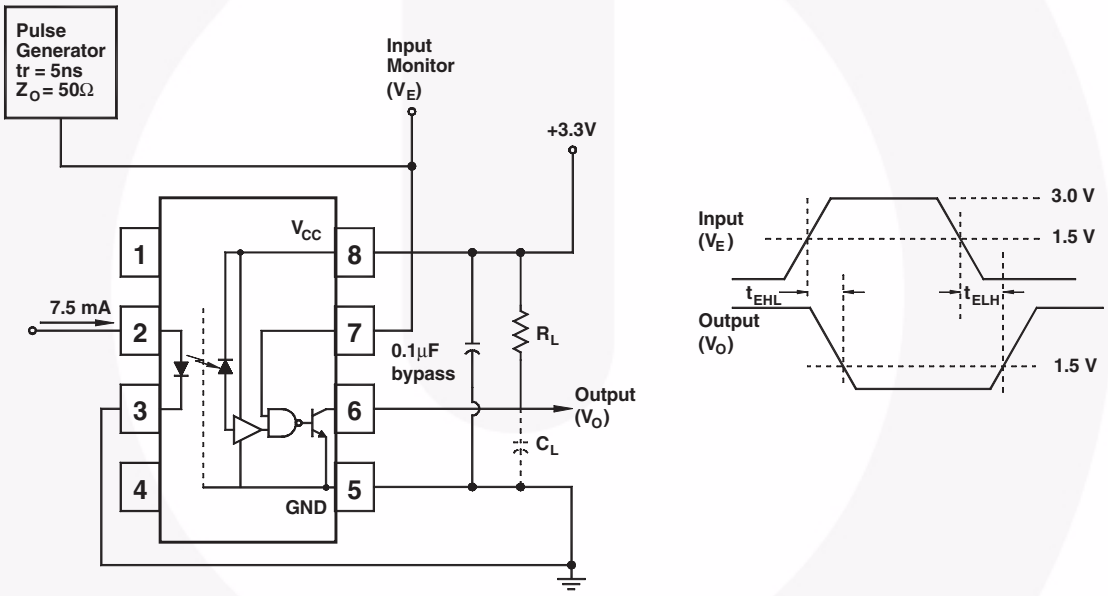


Fig. 10 Test Circuit t_{EHL} and t_{ELH}.

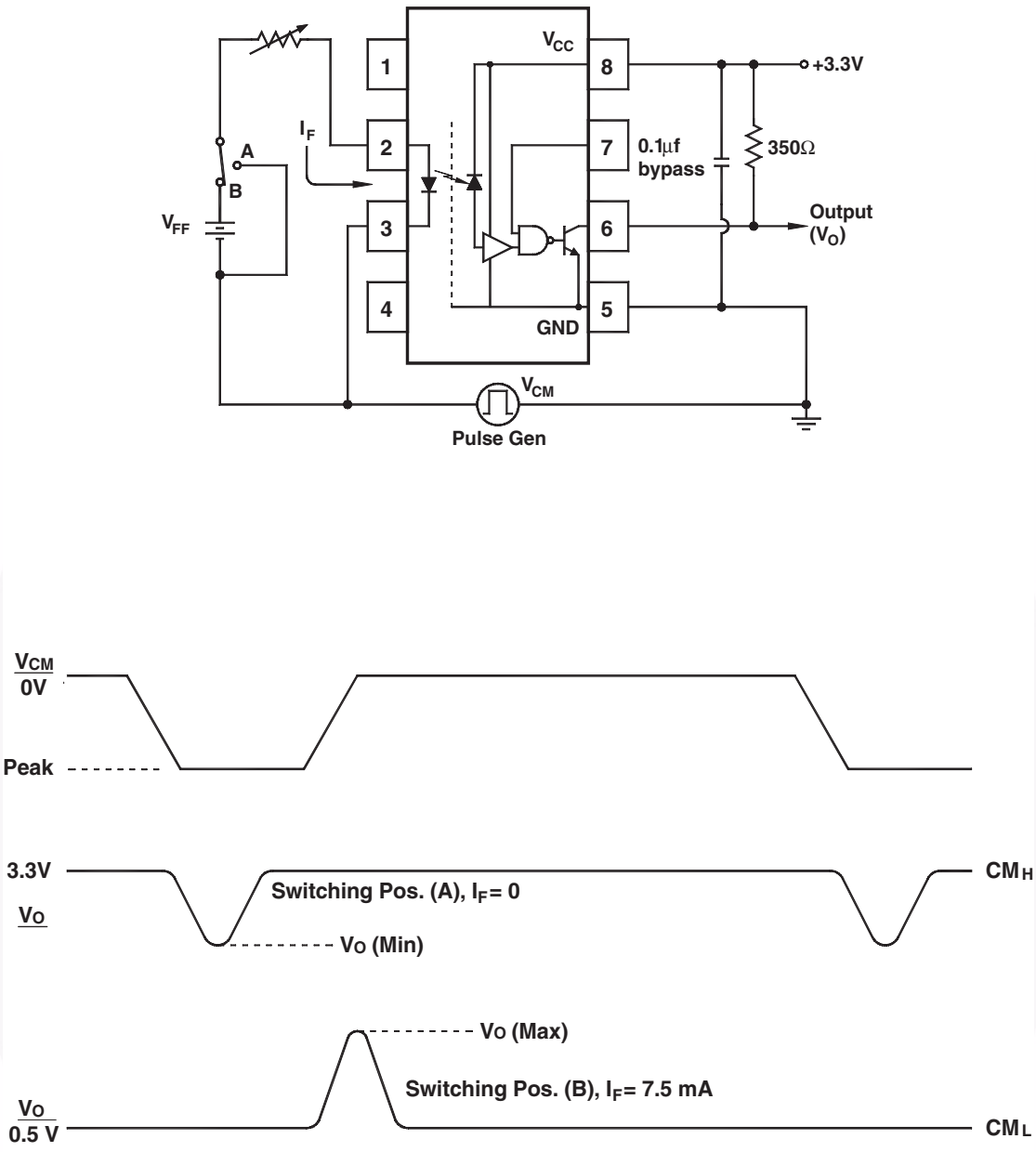
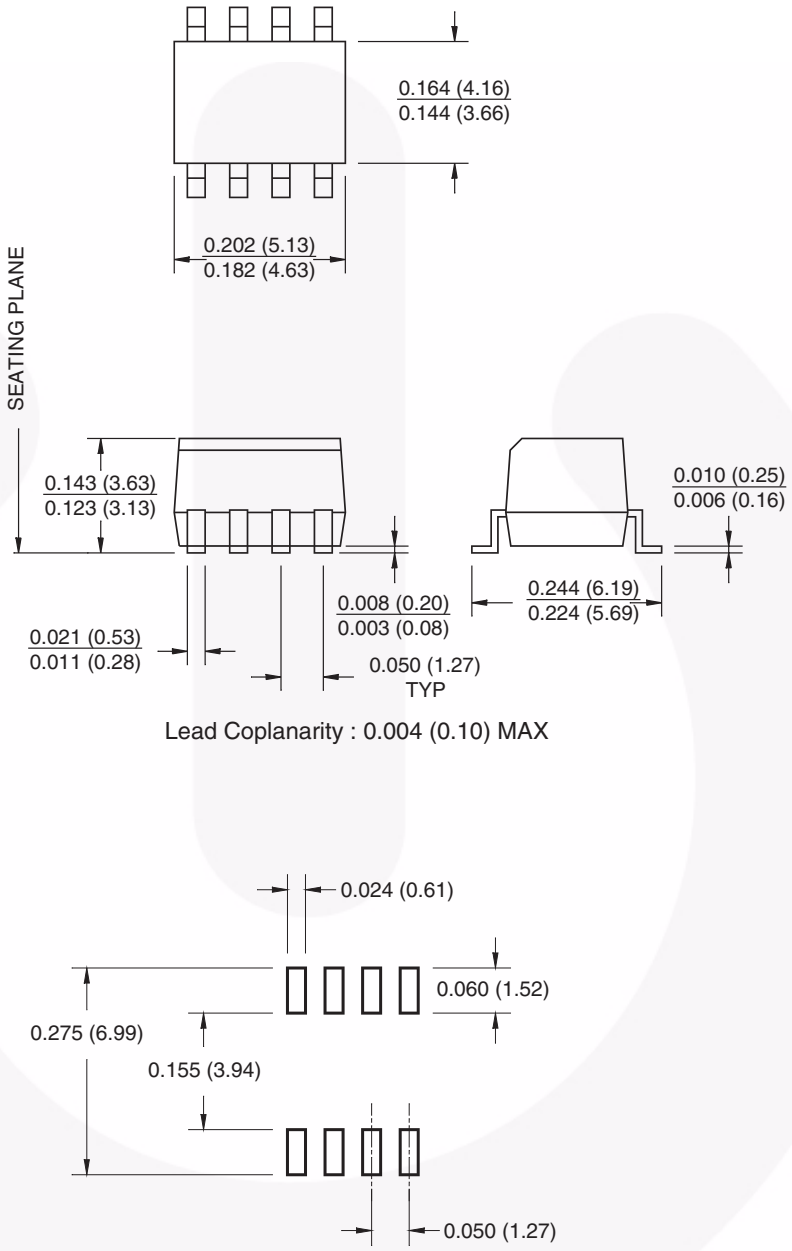


Fig. 11 Test Circuit Common Mode Transient Immunity

Package Dimensions

Small Outline



Note:
All dimensions are in millimeters.

Package drawings are provided as a service to customers considering Fairchild components. Drawings may change in any manner without notice. Please note the revision and/or date on the drawing and contact a Fairchild Semiconductor representative to verify or obtain the most recent revision. Package specifications do not expand the terms of Fairchild's worldwide terms and conditions, specifically the warranty therein, which covers Fairchild products.

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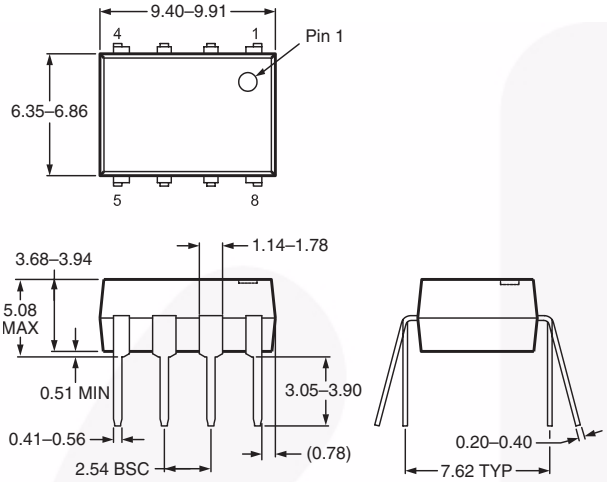
http://www.fairchildsemi.com/packaging/

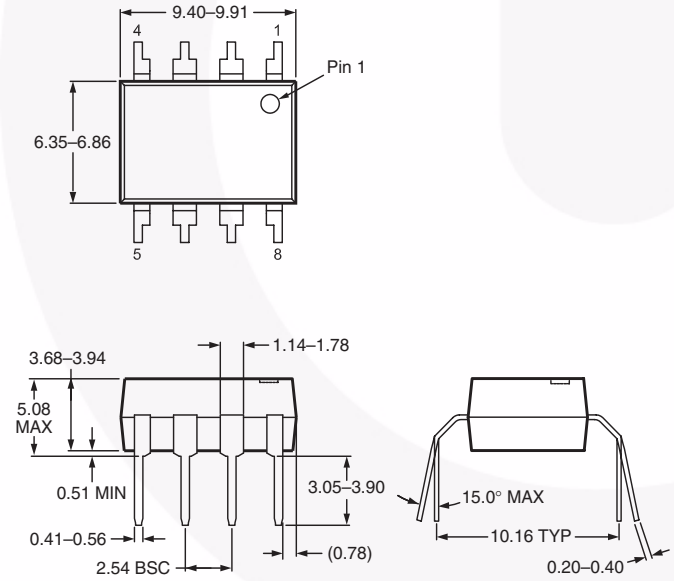
Package Dimensions (Continued)

DIP

Through Hole



0.4" Lead Spacing (Option T)



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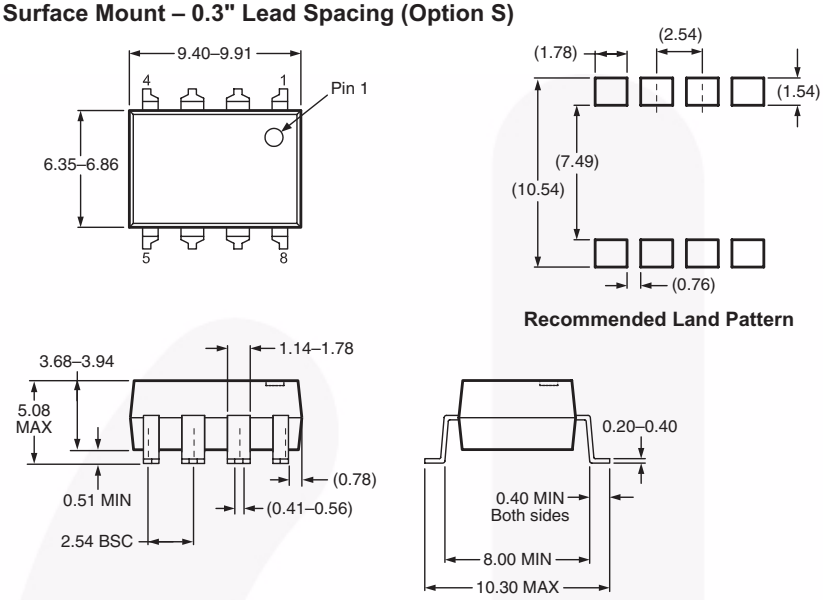
Package Dimensions (Continued)

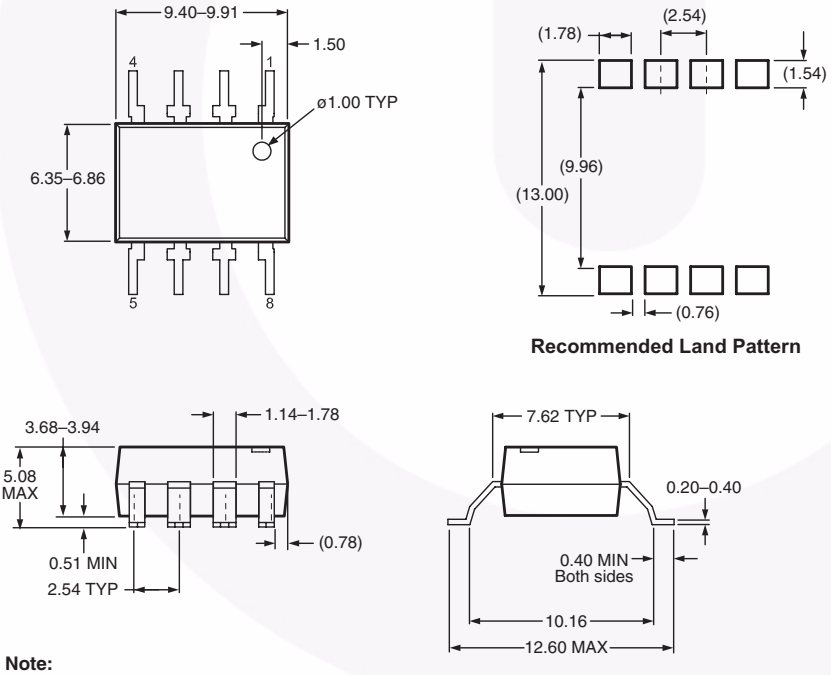
SMT

Surface Mount – 0.3" Lead Spacing (Option S)



Recommended Land Pattern

Surface Mount – 0.4" Lead Spacing (Option TS)



Recommended Land Pattern

Note:

1. All dimensions are in millimeters.
2. Dimensions are exclusive of burrs, mold fash, and tie bar extrusion.

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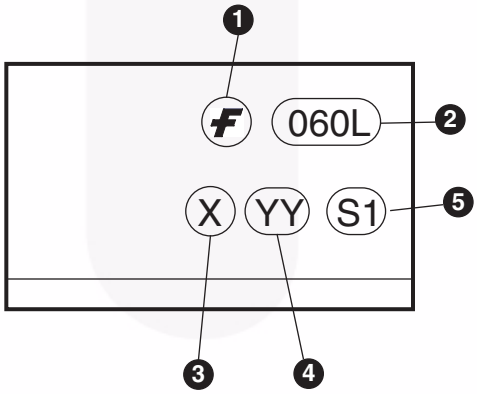
Ordering Information

Part Number	Package	Packing Method
FOD060L	Small outline 8-pin	Tube (50 units per tube)
FOD060LR2	Small outline 8-pin	Tape and Reel (2.500 units per reel)
FOD260L	DIP 8-Pin	Tube (50 units per tube)
FOD260LS	SMT 8-Pin (Lead Bend)	Tube (50 units per tube)
FOD260LSD	SMT 8-Pin (Lead Bend)	Tape and Reel (1,000 units per reel)
FOD260LV	DIP 8-Pin, DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LSV	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LSDV	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-2 option	Tape and Reel (1,000 units per reel)
FOD260LTV	DIP 8-Pin, 0.4” Lead Spacing, DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LTSV	SMT 8-Pin, 0.4” Lead Spacing, DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LTSR2	SMT 8-Pin, 0.4” Lead Spacing	Tape and Reel (700 units per reel)
FOD260LTSR2V	SMT 8-Pin, 0.4” Lead Spacing, DIN EN/IEC 60747-5-2 option	Tape and Reel (700 units per reel)

Marking Information

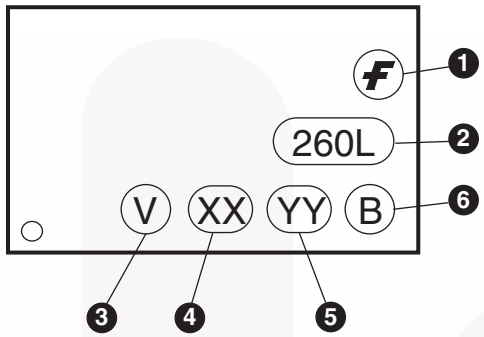
Small Outline



Definitions	
1	Fairchild logo
2	Device number
3	One digit year code, e.g., ‘8’
4	Two digit work week ranging from ‘01’ to ‘53’
5	Assembly package code

Marking Information (Continued)

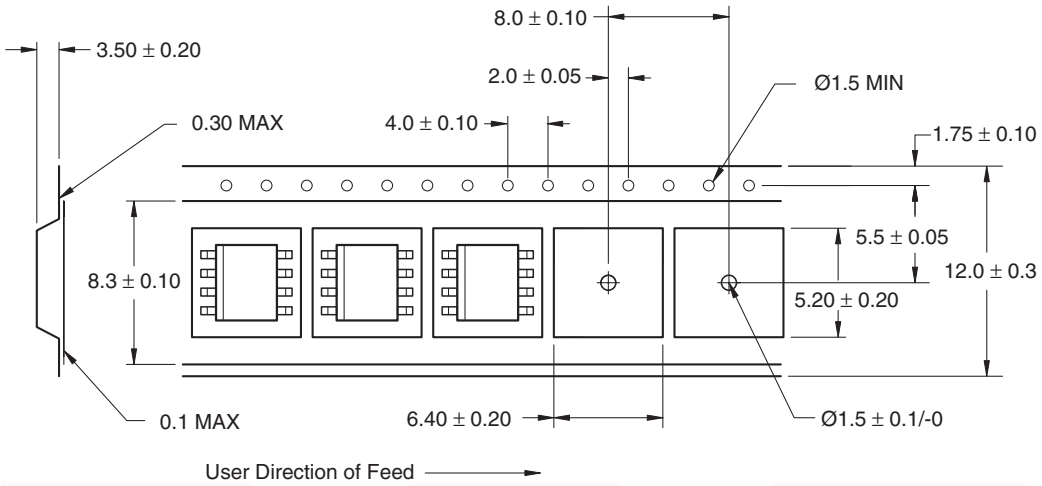
DIP and SMT



Definitions	
1	Fairchild logo
2	Device number
3	VDE mark (Note: Only appears on parts ordered with DIN EN/IEC 60747-5-2 option – See order entry table)
4	Two digit year code, e.g., ‘11’
5	Two digit work week ranging from ‘01’ to ‘53’
6	Assembly package code

Carrier Tape Specification

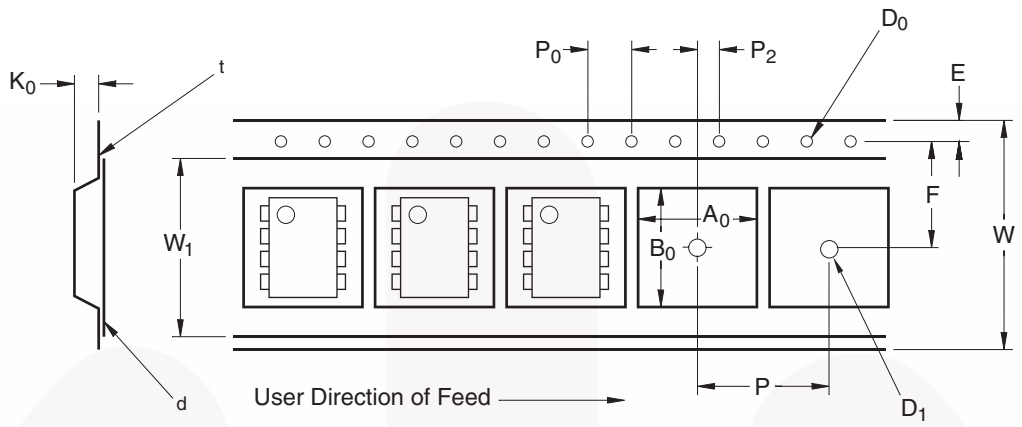
Small Outline



Note:
All dimensions are in millimeters.

Carrier Tape Specification (Continued)

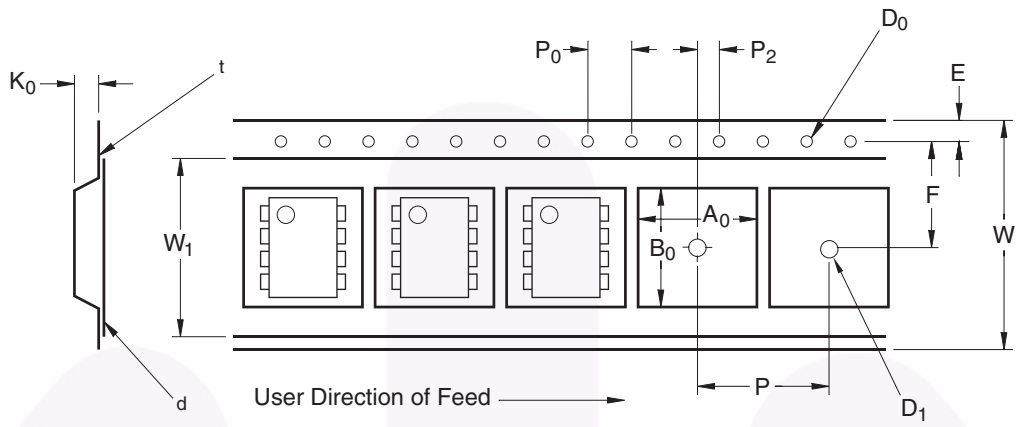
Option S



Symbol	Description	Dimension in mm
W	Tape Width	16.0 ± 0.3
t	Tape Thickness	0.30 ± 0.05
P_0	Sprocket Hole Pitch	4.0 ± 0.1
D_0	Sprocket Hole Diameter	1.55 ± 0.05
E	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	7.5 ± 0.1
P_2		2.0 ± 0.1
P	Pocket Pitch	12.0 ± 0.1
A_0	Pocket Dimensions	10.30 ±0.20
B_0		10.30 ±0.20
K_0		4.90 ±0.20
W_1	Cover Tape Width	13.2 ± 0.2
d	Cover Tape Thickness	0.1 max
	Max. Component Rotation or Tilt	10°
R	Min. Bending Radius	30

Carrier Tape Specification (Continued)

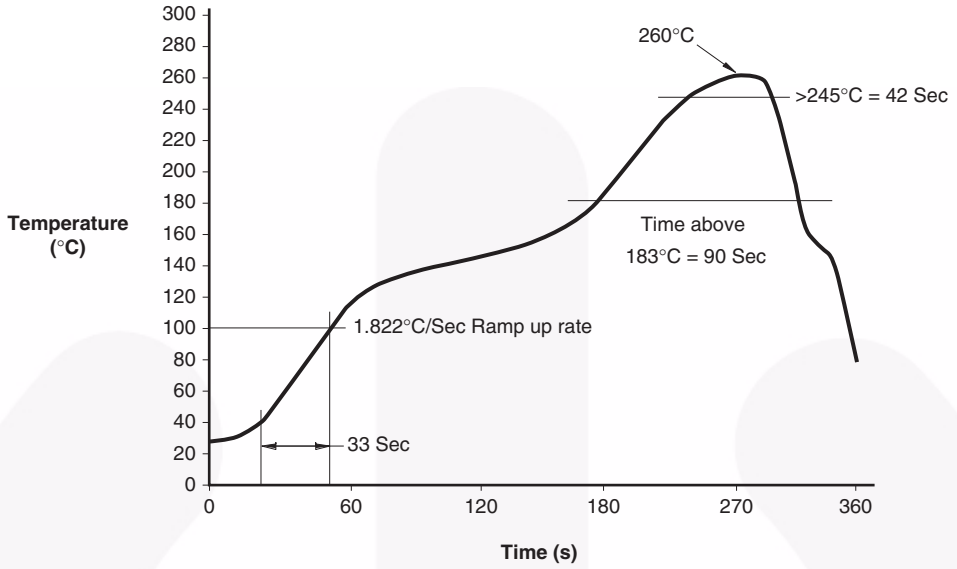
Option TS



Symbol	Description	Dimension in mm
W	Tape Width	24.0 ± 0.3
t	Tape Thickness	0.40 ± 0.1
P_0	Sprocket Hole Pitch	4.0 ± 0.1
D_0	Sprocket Hole Diameter	1.55 ± 0.05
E	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	11.5 ± 0.1
P_2		2.0 ± 0.1
P	Pocket Pitch	16.0 ± 0.1
A_0	Pocket Dimensions	12.80 ± 0.1
B_0		10.35 ± 0.1
K_0		5.7 ±0.1
W_1	Cover Tape Width	21.0 ± 0.1
d	Cover Tape Thickness	0.1 max
	Max. Component Rotation or Tilt	10°
R	Min. Bending Radius	30

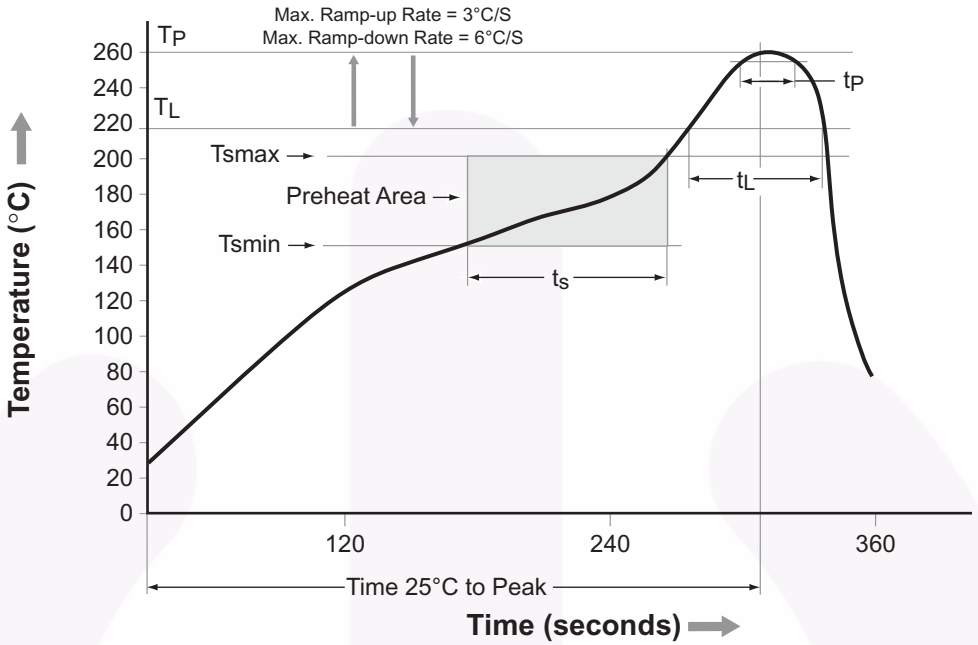
Reflow Profile

Small Outline



Reflow Profile (Continued)

DIP and SMT



Profile Freature	Pb-Free Assembly Profile
Temperature Min. (Tsmin)	150°C
Temperature Max. (Tsmax)	200°C
Time (t_S) from (Tsmin to Tsmax)	60–120 seconds
Ramp-up Rate (t_L to t_P)	3°C/second max.
Liquidous Temperature (T_L)	217°C
Time (t_L) Maintained Above (T_L)	60–150 seconds
Peak Body Package Temperature	260°C +0°C / –5°C
Time (t_P) within 5°C of 260°C	30 seconds
Ramp-down Rate (T_P to T_L)	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

Rev. I54

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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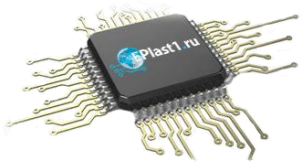
- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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